

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.**

Application Serial Number: 10/563,571  
Source: IFWP  
Date Processed by STIC: 1/19/06

# ***ENTERED***



IFWP

## RAW SEQUENCE LISTING

DATE: 01/19/2006

PATENT APPLICATION: US/10/563,571

TIME: 13:30:56

Input Set : A:\PCT-IN2003-000235 Sequence listing.txt

Output Set: N:\CRF4\01192006\J563571.raw

```

3 <110> APPLICANT: University of Delhi South Campus
4     Dhara Vegetable Oil and Food Company Limited
5     Bisht, Naveen Chandra
6     Jagannath, Arun
7     Gupta, Vibha
8     Burma, Pradeep Kumar
9     Pental, Deepak
11 <120> TITLE OF INVENTION: A METHOD FOR OBTAINING IMPROVED FERTILITY RESTORER LINES IN
MALE
12     STERILE CROP PLANTS FOR HYBRID SEED PRODUCTION AND A DNA
13     CONSTRUCT FOR USE IN SAID METHOD
15 <130> FILE REFERENCE: HSM-DU-AJ
C--> 17 <140> CURRENT APPLICATION NUMBER: US/10/563,571
C--> 17 <141> CURRENT FILING DATE: 2006-01-06
17 <160> NUMBER OF SEQ ID NOS: 18
19 <170> SOFTWARE: PatentIn version 3.3
21 <210> SEQ ID NO: 1
22 <211> LENGTH: 273
23 <212> TYPE: DNA
24 <213> ORGANISM: Bacillus amyloliquefaciens
26 <400> SEQUENCE: 1
27 atgaaaaaag cagtcattaa cggggaacaa atcagaagta tcagcgacct ccaccagaca      60
29 ttgaaaaaagg agcttgccct tccggaatac tacggtgaaa acctggacgc tttatgggat      120
31 tgtctgaccg gatgggtcga gtaccgcgtc gttttggaat ggaggcagtt tgaacaaagc      180
33 aagcagctga ctgaaaatgg cgccgagagt gtgcttcagg ttttccgtga agcgaaagcg      240
35 gaaggctgcg acatcaccat catactttct taa                                273
38 <210> SEQ ID NO: 2
39 <211> LENGTH: 90
40 <212> TYPE: PRT
41 <213> ORGANISM: Bacillus amyloliquefaciens
43 <400> SEQUENCE: 2
45 Met Lys Lys Ala Val Ile Asn Gly Glu Gln Ile Arg Ser Ile Ser Asp
46 1          5          10          15
49 Leu His Gln Thr Leu Lys Lys Glu Leu Ala Leu Pro Glu Tyr Tyr Gly
50          20          25          30
53 Glu Asn Leu Asp Ala Leu Trp Asp Cys Leu Thr Gly Trp Val Glu Tyr
54          35          40          45
57 Pro Leu Val Leu Glu Trp Arg Gln Phe Glu Gln Ser Lys Gln Leu Thr
58          50          55          60
61 Glu Asn Gly Ala Glu Ser Val Leu Gln Val Phe Arg Glu Ala Lys Ala
62 65          70          75          80
65 Glu Gly Cys Asp Ile Thr Ile Ile Leu Ser
66          85          90
69 <210> SEQ ID NO: 3

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70 <211> LENGTH: 273
71 <212> TYPE: DNA
72 <213> ORGANISM: Artificial sequence
74 <220> FEATURE:
75 <223> OTHER INFORMATION: This sequence was artificially generated from a wild type
barstar
76     gene
78 <400> SEQUENCE: 3
79 atgaagaagg ctgtgatcaa tggagaacaa atcagatcta tctcagacct tcatcaaact      60
81 ttgaagaagg agcttgctct tcctgagtac tatggtgaga acttggacgc tttgtgggat      120
83 tgtcttactg gatgggttga gtaccctctt gttttggaat ggaggcaatt cgagcaatct      180
85 aagcaactta ctgagaatgg agctgagagc gttcttcaag tgtttagaga agctaaggct      240
87 gaaggatgtg acatcactat cattctttct taa                                  273
90 <210> SEQ ID NO: 4
91 <211> LENGTH: 90
92 <212> TYPE: PRT
93 <213> ORGANISM: Bacillus amyloliquefaciens
95 <400> SEQUENCE: 4
97 Met Lys Lys Ala Val Ile Asn Gly Glu Gln Ile Arg Ser Ile Ser Asp
98 1          5          10          15
101 Leu His Gln Thr Leu Lys Lys Glu Leu Ala Leu Pro Glu Tyr Tyr Gly
102          20          25          30
105 Glu Asn Leu Asp Ala Leu Trp Asp Cys Leu Thr Gly Trp Val Glu Tyr
106          35          40          45
109 Pro Leu Val Leu Glu Trp Arg Gln Phe Glu Gln Ser Lys Gln Leu Thr
110          50          55          60
113 Glu Asn Gly Ala Glu Ser Val Leu Gln Val Phe Arg Glu Ala Lys Ala
114 65          70          75          80
117 Glu Gly Cys Asp Ile Thr Ile Ile Leu Ser
118          85          90
121 <210> SEQ ID NO: 5
122 <211> LENGTH: 84
123 <212> TYPE: DNA
124 <213> ORGANISM: Artificial Sequence
126 <220> FEATURE:
127 <223> OTHER INFORMATION: This oligo was synthetically generated
129 <400> SEQUENCE: 5
130 atgaagaagg ctgtgatcaa tggagaacaa atcagatcta tctcagacct tcatcaaact      60
132 ttgaagaagg agcttgctct tcct                                  84
135 <210> SEQ ID NO: 6
136 <211> LENGTH: 85
137 <212> TYPE: DNA
138 <213> ORGANISM: Artificial sequence
140 <220> FEATURE:
141 <223> OTHER INFORMATION: This oligo was synthetically generated
143 <400> SEQUENCE: 6
144 aagagggtac tcaacccatc cagtaagaca atcccacaaa gcgtccaagt tctcaccata      60
146 gtactcagga agagcaagct ccttc                                  85
149 <210> SEQ ID NO: 7
150 <211> LENGTH: 86

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151 <212> TYPE: DNA
152 <213> ORGANISM: Artificial sequence
154 <220> FEATURE:
155 <223> OTHER INFORMATION: This oligo was synthetically generated
157 <400> SEQUENCE: 7
158 ggatggggttg agtaccctct tgttttggaa tggaggcaat tcgagcaatc taagcaactt      60
160 actgagaatg gagctgagag cgttct                                           86
163 <210> SEQ ID NO: 8
164 <211> LENGTH: 78
165 <212> TYPE: DNA
166 <213> ORGANISM: Artificial sequence
168 <220> FEATURE:
169 <223> OTHER INFORMATION: This oligo was synthetically generated
171 <400> SEQUENCE: 8
172 ttaagaaaga atgatagtga tgtcacatcc ttcagcctta gcttctctaa acacttgaag      60
174 aacgctctca gctccatt                                                    78
177 <210> SEQ ID NO: 9
178 <211> LENGTH: 30
179 <212> TYPE: DNA
180 <213> ORGANISM: Artificial sequence
182 <220> FEATURE:
183 <223> OTHER INFORMATION: Thsi forward primer was synthetically generated
185 <400> SEQUENCE: 9
186 ggctcgagcc accatgaaga aggctgtgat                                     30
189 <210> SEQ ID NO: 10
190 <211> LENGTH: 29
191 <212> TYPE: DNA
192 <213> ORGANISM: Artificial sequence
194 <220> FEATURE:
195 <223> OTHER INFORMATION: This reverse primer was synthetically generated
197 <400> SEQUENCE: 10
198 ctagtctaga ttaagaaaga atgatagtg                                       29
201 <210> SEQ ID NO: 11
202 <211> LENGTH: 17
203 <212> TYPE: DNA
204 <213> ORGANISM: Artificial sequence
206 <220> FEATURE:
207 <223> OTHER INFORMATION: This mutagenic primer was synthetically generated
209 <400> SEQUENCE: 11
210 tcccacaaag cgtccaa                                                    17
213 <210> SEQ ID NO: 12
214 <211> LENGTH: 17
215 <212> TYPE: DNA
216 <213> ORGANISM: Artificial sequence
218 <220> FEATURE:
219 <223> OTHER INFORMATION: This mutagenic primer was synthetically generated
221 <400> SEQUENCE: 12
222 ttggacgctt tgtggga                                                    17
225 <210> SEQ ID NO: 13

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226 <211> LENGTH: 29
227 <212> TYPE: DNA
228 <213> ORGANISM: Artificial sequence
230 <220> FEATURE:
231 <223> OTHER INFORMATION: This mutagenic primer was synthetically generated
233 <400> SEQUENCE: 13
234 caagagggta ctcaacccat ccagtaaga 29
237 <210> SEQ ID NO: 14
238 <211> LENGTH: 31
239 <212> TYPE: DNA
240 <213> ORGANISM: Artificial sequence
242 <220> FEATURE:
243 <223> OTHER INFORMATION: This mutagenic primer was synthetically generated
245 <400> SEQUENCE: 14
246 ttttggaatg gaggaattc gagcaatcta a 31
249 <210> SEQ ID NO: 15
250 <211> LENGTH: 25
251 <212> TYPE: DNA
252 <213> ORGANISM: Artificial sequence
254 <220> FEATURE:
255 <223> OTHER INFORMATION: This forward prmer for the wild type barstar gene was
256 synthetically generated
258 <400> SEQUENCE: 15
259 cctcatgaaa aaagcagtca ttaac 25
262 <210> SEQ ID NO: 16
263 <211> LENGTH: 26
264 <212> TYPE: DNA
265 <213> ORGANISM: Artificial sequence
267 <220> FEATURE:
268 <223> OTHER INFORMATION: This reverse primer for the wild type barstar gene was
269 synthetically generated
271 <400> SEQUENCE: 16
272 ggtctagatt aagaaagtat gatggt 26
275 <210> SEQ ID NO: 17
276 <211> LENGTH: 24
277 <212> TYPE: DNA
278 <213> ORGANISM: Artificial sequence
280 <220> FEATURE:
281 <223> OTHER INFORMATION: This forward primer for the modified barstar gene was
282 synthetically generated
284 <400> SEQUENCE: 17
285 cctcatgaag aaggctgtga tcaa 24
288 <210> SEQ ID NO: 18
289 <211> LENGTH: 29
290 <212> TYPE: DNA
291 <213> ORGANISM: Artificial sequence
293 <220> FEATURE:
294 <223> OTHER INFORMATION: This reverse primer for the modified barstar gene was
295 synthetically generated

```

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Input Set : A:\PCT-IN2003-000235 Sequence listing.txt

Output Set: N:\CRF4\01192006\J563571.raw

297 &lt;400&gt; SEQUENCE: 18

298 ctagtctaga ttaagaaaga atgatagtg

29

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/563,571

DATE: 01/19/2006

TIME: 13:30:57

Input Set : A:\PCT-IN2003-000235 Sequence listing.txt

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L:17 M:270 C: Current Application Number differs, Replaced Current Application No

L:17 M:271 C: Current Filing Date differs, Replaced Current Filing Date